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THE DELUGE

A deluge as extensive, at least, as the inhabited earth, is a matter of direct revelation. But this declaration of divine writ does not satisfy the speculative genius of man. He inquires, how can this be possible, where is the great reserveir which could furnish a sufficient quantity of water. to cover the earth fifteen cubits above the tops of the highest mountains. It may furnish some amusement to refer to ancient theories, and spetulations upon this subject, as well as profit to discover how futile are all attempts to account for the wonderful works of God, when our theories are not based upon direct revelation, or the principles of sound philosophy. We propose in this article to state, briefly, some ancient theories upon this subject, with such reflections, as would naturally arise.

DR. BURNET'S THEORY.

He supposed the earth to have been perfectly spherical, without valley, mountain or sea, and deluge must have been sudden, and not gradual as forever? No! He, who holds the dectinies of nations, the interior to have been filled with an ocean of it is represented in the Scriptures. In such a tu- has reserved her for a high, and holy purpose: he water. Under the action of solar rays, the earth's multuous rush of waters, as must have occurred has destined her to become the theatre of the most crast became dry, and broken by fissures, and by on that occasion, it is difficult to conceive how the important events that ever occurred on earth. the rarefaction and expansion of the enclosed va- ark, and its treasures, could have been preserved. Years roll on, the plains of Syria become the pors, the fragments of the crust fell into the interi- Nothing short of a remarkable interposition of Di- scene of transactions, that must forever semain or in such quantities, as to cause an overflow of vine agency could have preserved it. water sufficient to drown the inhabitants. He maintained, also, that the plane of the equator coincided with the plane of the ecliptic, so that to have been filled with water, and as a large com- now they come in a people's might, to claim the the same season would uniformly prevail in the et approached the earth, a high tide was produced. country that God had promised to their fathers, same latitude. Without refering to principles of By the attractive power of the comet, and by the long ages before. philosophy, which are utterly at varience with this tide thus produced, the crust of the earth would Years pass away. The strange Egyptian exottheory, it is inconsistent with the plain declarations assume an oval form. In assuming this form, in- ic has taken deep, and wide root in the soil of of sacred writ. We are expressly informed, that numerable fissures would be made through the Syria. The mysterious Jerusalem has become the two rivers flowed through the garden of Paradise, outer crust, from which the waters would cash by capital of a mighty nation. The Almighty has and as all rivers are entirely supported by rain wa- attractive influence. This outpouring of the wa- chosen it above all the cities of the earth, to set ter, a broken and mountainous surface is indis- ter, would explain what Moses meant, by the his name there, - a gorgeous temple, the proudest declares that "Seed time and harvest, and cold As the comet passed toward the sun, its tail on saw, crowns the summit of one of her rising and heat, and summer and winter, and day and veloped the earth, and furnished so much water to mountains, and the smoke of the sacrificial offer previously to the deluge, at the same place, "cold explains what is meant, "by the windows of heav- Great I Am. and heat, and summer and winter," the plane of en being opened." How very philosophical is this the ecliptic never could have been displaced, as theory, and how scriptural!

She has become, in martial prowess, a successthe ecliptic never could have been displaced, as theory, and how scriptural! Dr Barnet supposes.

MR. RAY'S THEORY.

change of the materials composing the globe.

DR. HOOK'S THEORY.

He maintained that the earth was a large rese- clouds of far off antiquity. voir of water, and by rendering it prolate, or by Looking back through the dreamy period of more highly elevated, and, consequently, farther only employment worthy the character of man. raised above the surface of the water.

DR. HALLEY'S THEORY.

MR. WHISTON'S THEORY.

(To be continued.)

He supposed the earth to contain a vast quanti- Among all the glories that adorn the page of ty of water, and by changing the centre of gravity history, there is none around which the mind of in the earth, the waters would rush forth, and the christian scholar clings with so interse interest, successively overflow the different parts of the as around Jerusalem. Its very name is a watchearth. This theory involves the fallacy of causa word to call up associations of the deepest internon causa, or does not assign an adequate cause est, and to waken recollections, which, as they for the change of the centre of gravity. A change rush on their burning way through the thronged of the centre of gravity can result, only from a avenues of memory, thrill on every fibre of the soul. It comes to us, veiled in the misty drapery of years gone by, and hung with the shadowing

compressing it in opposite parts, the water would four thousand years, we see, standing amid the be forced out, and thus overflow the earth. By olive-crowned, and vine-girt hills of Syria, a gorthis means, we might account for the overflow of geous city, -it bears the holy name, Jerusalemtwo opposite zones on the earth, but, by an ac- righteousness, and peace. Strange name for a tion of this kind, a part of the earth would become capital city in an age when war was considred the

Centuries pass by-the dark waters of oblivion roll on, sweeping away city after city, and nation He ascribes the deluge to a shock of a comet, after nation, shrouding their very names in the pall or some transient body, upon the earth, by which of everlasting forgetfulness; and during this long pethe polar and dinrnal motion of the earth was ried no mention's made of Jerusalem. I'm she changed. It is urged against this theory, that the too perished? Has her memorial been blotted out

anomalies on the page of history. A people that have grouned for centuries beneath the yoke of Mr Whiston supposed the interior of the earth Egyptian slavery, have burst their chains, and

sably necessary for their existence. Again, it fountains of the great deep being broken up." monument of architectural skill the world ever night, shall cease no more." If there had been, its atmosphere, that it rained forty days. This ings, ascends perpetually from her altars to the

she has spread her commerce over all the known

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that an angel's harp might envy, and "waked the was driven to the beam amid her rains, and fifteen echoes of eternity," with the most exalted strains hundred thousand of her sons perished with her. of poetry-her prophets have rolled back the mishad been hid from ages and from generations, and that yet look forward centuries of ages for their accomplishment. But a change comes over the spirit of our reminiscence. Jerusalem, that has so long basked in the sunshine of Divine favor, tween antagonistic points. The unending war of has grown rich on the bounties of God, and has the elements renders it impossible that it should that hange around them, and lay open their real forgotten the giver; therefore God has withdrawn be otherwise; and they are reduced to the neceshis favor from her, and delivered her over to the sity either of contending, with one against the than all the cruelties that ever diagraced the Spanbands of her enemies -the sword of the Assyrian other, or of being laid open to the merciless at- ish inquisiton could possibly do. has prevailed against her-the victorious Nebuchadnezzar has led away her captive children to the

'On willow trees that wither there:" and the hearts that were wont to leap with gladness, as their merry tones re-echqed amid the hills and vales of Judea, now 'weep when they

Seventy years pass away, and again the daugh- ly weapons: ter of Zion rejoices as she sees her children return-Moriah-again the morning and evening eacrifice smoke on the alter-and again the pions worshipers assemble, at the return of their stated feasts, to mingle their prayers to the God of their fathers

Tracing down the page of history, Jerusale still continues to be the scene of, many mighty events, till in the fullness of time one occurs, the stoop at his nod; hamispheres quail at his wrath, importance of which, far surpasses all the rest .-For centuries the finger of prophecy had been pointing to an individual, who should make his ap- happiness to the worm whose lot it is, to stand at pearance here and establish a kingdom, whose the helm of a kingdom's affairs. bounds should be "from the rivers, to the ends of To be a tyrant, man has but very little to learn, no and." At length the moment has arrived when to unlearn. That we frequently hear men disthese prophecies are to be accomplished. 'Tis claiming, in clamorous tones, against the unqualiquiet of Judea's aky, and voices in the view-drous thing, in this age of novelties. to them a Savior is born; then, quick as thought, that no advantage can be ultimately gained by men." But though he, whose birth was so mi-the withering touch of criticism; or to defend the the death knell of our liberties tolling through racefously announced, came to his own, his own principles themselves from the bold, and fearless these peaceful valleys, and happy villages, the received him not, but spurned him from them, cryattacks of freethinking, untranmetled, searches thunderings of a civil war, becoming over our ing with secon, we will not have this man to rule after fruth. ever us, and finally to complete their awful wick- Truth is hydra-headed. The more you attempt expression. Would you bless earth, and 'her ina, "slow him, and hanged him on a tree." This deed filled up the cup of ain to ill-fated Je- Imprison one for opinion's sake, and two will join most dear, striding rapidly onward; and the ex-

world—the fame of the wisdom and glory of her like of which no eye had seen, and which no pen of such means, to do away what some deen menarchs, have spread to the attermost parts of can adequately describe. Jerusalem was razed to heretical, that the world has concluded that to treat the earth—her bards have tuned the lyre to note, her foundations—the plough-share of destruction whatever comes attired in the garb of novelty. The heart sickens at the rehearsal of the dreadful ty curtain of futurity, and revealed events that tale:-gladly we close the volume of history and turn away from a scene so painful. OMEGA.

FREEDOM CEXPRESSION.

tacks of both; for strife, in a common cause, unites enemies. In maintaining in theory, as well of with demand that an unqualified freedom of exlone streams of Babylon - the harps of her bards as making practical use of, the free expression of pression should be curtailed, although it would the thoughts, untramelled by sect or party, unbi- have been considered, doubtless, as the foundation ased by prejudice, this same difficult warfare is encountered. The actors in the contest are placed in a fearful dilemma-compelled to seize one born and to contend manfally with the opposing, or to be a mark, at which both may aim their dead-

On the one hand; pure christianity, true philosing to her embrace. Again the demolished walls ophy, justice, and all the nobler qualities of their of Jerusalem are set up-again the snow-white natures side with them; while, on the other, they attempt to force such a restriction upon us, canbattlements of the temple adorn the summit of must withstand all the doubly charged volleys of wrath, and indignation, levelled against them, and their cause, by the aristocratic politicians, the bigoted ecclesiastics and the false philosophers with which the age is flooded.

Men's natural inclinations incline them to the exercise of power, as well as excite them with a desire of possessing it. To-see whole nations and to be the moulder, and fashioner of every sentiment put forth by his subjects, is the height of

the earth," and of "whose years there should be to be a true republican he has much, very much ht. Suddenly, celestial music stirs the blue fied free expression of the thoughts is no won-

less air, announce to the wondering shepherds that | The experience of all past ages has taught us, the angel bands join in the song, "Glory to God in bringing to our aid, legislative enactments, in the the highest, on earth peace, and good will towards defence of our opinions, in order to shield us from

ing Roman was called in to execute the wrath of whole tribe will instantly rise in rebellion. And, universal? Abridge not the analienable rights of se negry Ged. Then caused a scene of wee, the indeed so great has been the counteracting effect man.

with silent contempt, is, by far, the better part of valor.

It matters very little how wild or fanatical men's opinions may be; let no one dare attempt to crush them by legislative enactments. Let their utterence be free; and when once they are plainly before the world, enter the arena, and give them In practical life men are always situated be- manly battle! Scatter them by the all prevailing power of truth, wrest of the enchanting spell defermity, and you have done more to arrest error.

> The hollow pretence of some, that the interests store of the temple of liberty, by the Jesuitical minions of the papal throne in the middle ages, world; now, when men have learned that it is chesper to think, and speak for themselves, than to lire others to think and speak for them-be scouled by every man true to the advantages afforded him by the nineteenth century, as unworthy of a moment's consideration. He who would not, certainly, present very strong claims either to profundity in the theory of human governments, or to the possession of free principles.

> The possession of ardent patriotism, and the exercise of the principles of religious toleration will lead one to a directly opposite course. Every principle dominant in his besom will prompt him to lend all his energies to the support of "Deity's last, best gift to man,"-liberty of expression. Without it every other gift is but an insult, and a mockery. Without it, Reform has reached its farthest limit, science and sound learning are at a perfect stand, and, in fine, all that exalts and enobles man, and distinguishes him, so highly, from the lower orders of existence, is a mere trifle, hardly worth possessing.

> Can a greater insult be offered to man, than to place him in an existence, where the means of improvement offer themselves on every hand and yet keep him back from the exercise of the only privilege by which he might be beneficial to his fellows

Would you curse the world! would you hear to banish it from existence, the surer it is to live. habitants? would you see the enterprizes you held em, and sealed her doom. Soon the aveng-him, and defend his cause. Rack one, and a alted privileges, now confined to a few, becoming BETA.

HATEFUL TEACHERS.

derstand the object of education. The father declares that in educating his child, his design is to fit him for active and happy life, but if we were to judge of the end, by the means, we should not dream that he ever thought of his declaration .-How frequently we find parents employing teachers, who are destitute of every qualification,men they would not trust with a dollar; and yet they will intrust to them the future destiny of their shildren.

Teachers are often complete rustics in their manners, possessing no refinement, or affability whatever; and, more than this, they are frequently accomplished clowns. The result is, their pupils ape them to perfection. But says one, the subject of manners is a small matter. A small matter that your children grow up gossips and pocted? This you are pleased to call a small matter.

blasting as the Simoons of Arabia.

frage the timid child into an icicle.

our youth are intrusted. Degraded wretches!- land. Corrupters of youth! While such things remain, how can it be but that we must have vicious children. Vicious vouths, and vicious communities follow in the train of vicious school masters,-Vice! is written over their school room doors.

Parents, this is your fault, arouse to its impor It is generally supposed that parents fully un-tun ce. Employ instructors who are men of high I wonder how deep, in a fathomless sleep, moral feeling, men of refinement, men possessed of gentleness and of courtesy. DELTA.

OCEANIC CURRENTS.

Oceanic currents are produced chiefly by winds. The most extensive current of this kind is the Gulf Stream. This flows out of the Indian Ocean. around the Cape of Good Hope, passes northward along the coast of Africa to the equator, thence across the Atlantic; being increased by the Trade winds; and impinging against SouthAmerics, it is turned northward, and continues along the coast of the United States even to the banks of Newfoundland; from whence it turns east and I wonder how trees, and the fish of the seas, south east across the Atlantic, returning to the coast of Africa, to supply the deficiency of waters there. It is estimated that this current covers a gawkies, and thence preclude the possibility of space two thousand miles in length, and three their ever associating with the refined, and res- hundred and fifty in breadth. Its velocity is very variable; but may be stated at from one to three, Teachers are not unfrequently possessed of the and even four miles per hour; its mean rate being most unkind dispositions, stubborn, crabbed and one and one half miles. A current sets northmorose. They can never speak to a scholar, with- ward between America and Asia, through Behr- I wonder below what I never can know, out enarling. Their highest pleasure is to make ing's Straits, which passes around the northern their popils trepible. These are the men "who extremity of America and flows out into the Atbave caused many a child to stammer, that, by na- lantic in two currents, one called the Greenland ture, spake plainly." If the remark be true, "that current, which passes along the American contithe man who cannot leave his mark upon his pu- nent, at the rate cometimes of three or four miles pil, ought never to have one," then surely the per hour until it meets and unites with the Gulf scholars of such teachers must be marked with Stream, near the banks of Newfoundland, where Autafulness. Our school houses cannot be too the velocity is two miles per hour; the other sets strongly guarded against the intrusion of such into the Atlantic between America and Europe. Their "track is cold, and cheerless, It is these two currents that convey icebergs as and desolating" to every trace of social happiness; far south as the fortieth degree of north latitude GREAT RESULTS FROM SMALL CAUSES. before they are melted. Among the Japanese The friend look of such a teacher, is enough to Islands a current sets northeast, sometimes as things in nature, and in the affairs of human life. strong as five miles per hour. Another sets around The mere tasting of the forbidden fruit by our first Teachers are frequently practical idlers, waiters Cape Horn from the Pacific into the Atlantic parents, was small and trifling in itself, but contaverss and stores, spending their evenings in Ocean. A constant current sets into the Mediter- template the results. It produced a knowledge of telling vulgar stories, and boasting of their mighty ranean through the Straits of Gibralter, at less good and evil, and rendered them unhappy and pugilistic feats in conquering some unfortunate than half a mile per hour. It has been conjecture morally dead. For their sake, the earth was curewhom cruelty has already nearly rained .- ed, but not proved, that an under current sets out- ed. By that act, sin was introduced into the world. Such teachers not uncommonly become the lead- ward through the same strait, at the bottom of the and the seeds of depravity, which make man the ers in the sensual pleasures of the day; attending ocean. Mr Lyell also suggests that the constant scourge of man, were universally sown. all the public parties and balls in the region, and, evaporation going on in that sea, may so concen- Anger, hatred, revenge, envy, malice and idthat too, in company with their scholars; -- instiga- trate the waters holding chloride of sodium, (com- temperance are monsters, breathing distruction to tors of card playing, introducers of dice-boards, mon salt,) in solution, that a deposit may now be the felicity of man; yet like the coral rock, the practices just calculated to train up a school of forming at the bottom. But the deepest sounding lofty pine, or a mighty river, they may be traced gamblers. But as a necessary concomitant of yet made there, (5880 feet,) brought up only to small beginnings. A party-colored coat, and the so foul practices -- profanity must be called in mud, sand and shells. Numerous other currents a dream aroused the eavy and hatred of the brethto lond her gallantry, and all this, before their puof less extent exist in the ocean, which it is unren of Joseph, that they determined to slay him; pila. Yet, this is not the worst; we have even in necessary to describe. They form, in fact, vast but the finger of Providence overruled their evil New England, school teachers, who are miserable rivers in the ocean, whose velocity is neually designs, and he became the succor of his aged drunkards. Such are the men to whom many of greater than that of the larger streams upon the father and his numerous family. Years are made DR. HITCHCOCK.

es air to such an extent, that it may be made to coupy 500 or 600 times the space it did before. of nations. The perfidious act of Holer and

THE SEVEN WONDERS OF GEOLOGY.

Lay the earth in her primitive state, When Jehovah passed by, with his fiat so high, And each particle ran to its mate!

I wonder how low, the old primaries so. Mysteriously building so long, That time sped away, in long ages 'ere they Could form a foundation so strong.

I wonder what power, thus caused them to tower And lift their gray heads to the skies, While the loftiest hills, have the granite for sills, And their tops interspersed as they rise.

So venturous, (the truth nature shocks) That they should intrude in a manner so rude. Even into the centre of rocks.

I wonder what time, in old Ocean's prime. Little insects se busy could be, As to form in vast files, those numerous isles Springing up in the midst of the sea!

Of those billows whose fiery tides lave The crust of the earth, since the morn of its birth, So it rises and falls with its wave.

I wonder what hour, in its thundering power, Creation's vast wheel shall be stayed, And the internal fire bursting forth in its ire, Earth's funeral pile shall be made.

There is a connection between small and great

of seconds, and mountains of sands.

The single act of one nation or one man has pro-Galileo first suspected that air is a ponderous duced results the most autonishing, and revolu-body, and Toricelli first demonstrated it. Air tions the most important. A single movement in Paris, was the cause of a ten years' war, in which the ancient kingdom of Troy was overthrown, and thousands of valiant soldiers lost their lives.

often involved nations in war, and deluged the earth in blood. See Alexander overturning the kingdom of Persia, and conquering the world .-Casar plunging himself and his followers into sight of its rich clusters. But none, ah! none, fifty pitched battles; slaying one million one hun- observed the sequestered spot, where flourished throning and constituting kings at his pleasure.

have sprung up to inhabit the wast continent of fibres, and no kind hand supported its reclining

the United States.

more happy results from small causes. A man earth who listen with delight, to Flattery's voice. a tree and from that circumstance the art of print- observe not her, who wanders in Poverty's lowly history of remote ages has been preserved.

the Meeting house magnified, and inverted which deemed. aroused the cariosity of his father, and led Galilee to make further experiments with glasses, till a telescope was perfected, by which man is enabled to discover the sublime works of God.

NORTHFIELD.

On account of the changes in the atmosphere a an austains 1 1-2 tons weight at one time more

THE DEW DROP.

Beneath the thick foliage of a spreading vine, grew a rare, and beautiful plant. Pleasure passed The ambition or revenge of a single king has in her daily rambles to admire the climbing tendrils of the haughty vine, and Beauty, as she wandered in search of Flora's choicest flowers, to deck her fair brow, stood enraptured, at the of its reaching Boston was still later. The same dred and ninety-two thousand men, and overtura- the tender plant. Its balmy fragrance, presented lish, by the most satisfactory proofs, the route paring the liberties of his own country. Napolean, no attractions for Fashion's heartless throng; its sued by these storms. In his papers on this subject rising from obscurity, from a hill of dirt in the sea, opening bud and spreading blossom, lured not the he has fully demonstrated that they often originate to the most powerful Emperor of Europe, de- sons of mirth; and the thoughtless multitude passed gaily on, unconscious of its surpassing leveli- they are mostly small and round, and progress in a From a few adventurers a numerous people ness. No gentle shower moistened its delicate curve toward the northwest, enlarging as they adblossom. Thus neglected, this precious flower A small tax on tea, aroused the spirit of the flourished and grew, till the surrounding earth, and as far as he has been able to trace them, they Revolution, and resulted in the independence of became parched, by a withering drought. Then pursue a direction more or less toward the east. its leastets withered-its petals drooped, and it The disease of one man, has often spread had perished unseen, had not a dew-drop fallen, through whole cities, and particles waited in the to lend a charm to its decaying loveliness. Spark- of a whirlwind; and in this he has been followed breeze, have spread postilence through whole ling in the bright rays of a morning sun, it atcountries. One vice produces thousands, and a tracted one of Religion's votaries, who had been vicious character is formed from small beginnings. to pay her devotion at Virtue's shrine. Hastily At first, perhaps a slight variation from virtue, be- she approached the spot, and raised its slender gins a course of vice, that will poison the heart and stalk. Enraptured she gazed on its matchless sink the character in depths of infamy. The in- beauty, then shook off the pearly dew-drop, and temperate man became so by degrees, and now transferred it to a fairer clime, and more congenial he is lost, and fallen indeed. The gambler first soil, where it flourishes a perrannial plant, and stakes a trifle, till at last he throws all upon the knows no decay. Lovely flower! thou shalt evcapricious wheel of chance, and his fortune and er be cherished in grateful remembrance. Thou his character are the price he pays to this alluring art an emblem of moral worth, whose possession, unheeded by the gay world, lives unnoticed and But we will turn our attention to some of the unknown. She is surrounded by the fair ones of made impressions from letters cut in the bark of Beauty, Wealth and Pleasure pass by, but they ing was brought to perfection. Time was, when vale. Still she survives the dark night of obscuria copy of the Holy Writ could hardly be obtained ty, and retains her sacred trust, till the witherering by the most wealthy, and even princes were rays of Adversity exhaust the springs of affection. ecarcely able to possess it. Now every person on There nature struggles-moral worth declines. earth is able to buy this valuable treasure. By She can no longer survive, and she yields beneath the simple invention of printing, the Gospel has Affliction's stroke. But none, ah! none witness been sent to all the kingdoms of the earth, and the her grief, till a silent tear steals down her pallid cheek. Religion observes it, and hastens to ap-Another observed something attached to his ply the balm of consolation, to her wounded iron shod shoe which proved to be the load stone; spirit. She gently whispers "all thy mourning hence the origin of the magnet needle, which snall be turned into joy." Kindly she wipes guides the mariner across the pathless ocean. away the falling tear, and bids it mingle with the The falling of an apple suggested to the mind of dow-drop; then on a Scraph's pinions bears her to Newton the laws of gravitation, and a boy playing that fair clime, where coronals of immortal amawith two spectacle glasses, observed the spire of ranth; glitter forever, upon the heads of the re-

PHILOSOPHY OF STORMS.

The following article is an able review of Mr. Espy's theory of storms, taken from a late number of the Merchant's Magazine.

Franklin was, we believe, the first to discover that our great northeast storms "travel against the wind, a sewind, a so wind, A violent rain having set in at Philadel, tory of nature.

phia, from the northeast, he naturally enough supposed that the storm came from that direction, and was greatly surprised, on consulting the passengers from New York and Boston, to find that it commenced raining in New York several hours after the storm set in at Philadelphia, and that the time anomaly was also observed by Dr. Mitchell: but it remained for Mr. Redfield, of New York, to estabin the Windward Islands of the West Indies, where vance, and at latitude 30, inclining mere to the north. Boyond this they curve to the northeast,

Mr. Redfield has also attempted to show that in all our great storms, the wind gyrates in the form on the other side of the Atlantic, by Colonel Reid, who has published a volume full of interesting details on the subject, in which he attempts to develop the law of storms by means of facts with a view to practical use in navigation. But neither of these gentlemen, so far as we know, have succeeded in tracing this supposed gyration to its cause, or pointed out the dependence between clouds, winds, hail, and the other phenomena of storms. Mr. Espy has taken a step beyond them, and confidently believes that he has discovered the key which is to unlock all the mysteries of meten rology, and disclose the hidden causes which produce clouds, water spouts, tornadoes, land spouts, variable winds, and barometric fluctuations.

That result of Dr. Dalton's experiments on the aqueous vapor in the atmosphere, by which its amount in any given space may be determined by means of a glass of water and a thermometer, may be said to constitute the basis of Mr Espy'e theory, and therefore requires a passing notice. If the reader will take a tumbler of water of the same temperature as the air, and drop into it a small piece of ice, he will find, as the water cools, that dew will settle on the outside of the tumbler. The temperature at which this dew begins to form is called the dew point.

The dew on the tumbler is condensed from the air by the cold communicated rom the tumbler, and it may also be condensed by the same degree of cold produced in a different way. It is found that air is cooled by expansion produced by diminished pressure, and hence, when the receiver of an air pump is rapidly exhausted, and the air within expands sufficiently to cool it down to the dew point, moisture will make its appearance on the sides of the receiver, and an artificial cloud will appear. Mr Espy supposes that it is precisely in the same way that clouds are formed in the labora-

If a dozen feather beds were piled together one released during the condensation of vapor while a above another, the lower ones would be pressed cloud is forming, will expand the air in the cloud closer than the upper, because they would not only about eight thousand cubic feet for every cubic foot have to austain their own weight, but also the of water formed by the process of condensation. weight of all those above them. For the same If this is true, and it seems to be placed beyond reason the atmosphere which lies next to the sur- a doubt, then the air within a cloud is both lighter face of the earth, is subjected to much greater and warmer than that by which it is surrounded .pressure than that which is piled up above, and this That it is warmer is proved by actual observation It follows then that if a current of air should pass tells us that when he was enveloped in a cloud on upward from the surface of the earth, it would be the side of a mountain his thermometer rose higher subjected to a constantly decreasing pressure, and than in the san; and both Durant and Gay-Lussac wishes them to have so much knowledge commuwould grow cold, and when it reached the tem- a balloon. The uniform depression of the barom- He sends his child to school as he does to the merperature of the dew point, it would begin to con- eler under large clouds and during all our great chant, to get so much, as though knowledge, like form a cloud. This process, Mr Espy contends, position, and place beyond a doubt the fact that the schoolmaster generally provides himself with a takes place constantly in the operations of nature. air in the cloud is warmer, and therefore lighter stock of the saleable branches of education, and Certain portions of the air becoming more heated than the surrounding atmosphere. or more highly charged with aqueous vapor than If then, a cloud can be formed by a current of gards his scholars as the druggist does his phials. others, are thus made specifically lighter, and con- air moving upwards, and the cloud thus formed is He takes their minds one by one, and pours in, sequently rise, and when the dew point is high, lighter than the circumambient air, it necessarily pours in, from his larger vessel, of the required these upmoving currents do not find their equili- follows that the equilibrium of the atmosphere must, material, as though it were oil, and carefully corks brium until they are sufficiently expanded by the be more or less disturbed by every formation of this it up, fearing lest the least motion should spill the reduce their temperature to the point of forming its latent caloric, makes the air, within it warmer childs acts upon the same principle, and examines dew, when a cloud will begin to appear.

for every one hundred yards of ascent; and hence, er until it reaches the temperature of the dew have his mind confined, and handled, and filled if an upmoving current of air is ever produced in point, when it will begin to condense its vapor, thus up, and shook down. Now the truth is that eduthe operations of nature, it is easy to calculate how feeding the cloud with fresh materials for its exhigh it must rise before it begins to condense its pansion and perpetuity, and communicating to it, ing and crossing her. It consists in leading out summer's day, the thermometer stands at 80° and moves on perhaps for days together, as we often bethe dew point is 70°, then air must be cooled 10° hold in the operations of nature, enlarging as it adbefore it will begin to condense its vapor into cloud. vances, causing high winds wherever it passes, and or as the Indian engages in the gigantic pastimes Consequently, if it cools one degree for every one fertilizing the earth with its refreshing showers. hundred yards that it rises, then when it attains an We often hear of sticks, grass, sand, &c., elevation of ten hundred yards, it will be cooled frozen in the hail which falls from one of these cloud become immediately visible. The bases of feetly simple. The current of ascending air which all forming clouds in the same neighborhood should therefore be nearly on the same level.

Again: it is known to every chemist that vapor a large quantity of caloric, known in technical language as the caloric of elasticity, and thus producing a considerable amount of sensible heat. If ice is exposed to heat, calorie combines with it and forms water; if water is exposed to heat calorie combines with it and forms steam or vapor; and when vapor is converted back to water, this enlorie (heat) must necessarily be released; and, according to Mr. Espy, its agency in producing wind, rain, hail, barometric fluctuations, and all the sublime and astonishing phenomena which attend our most violent storms, has hitherto been altogether overlooked. He finds, by calculating according to well Under the pressure of 30,000 pounds to the known chemicallaws, that the caloric of elasticity square inch, air becomes a liquid.

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cloud, and carries with it these lighter substances cannot be converted into water, without releasing been condensed from the saturated air, and throwing all out together at the side of the cloud in the the form of hail, and descend by their own gravity to the earth. Large sheets of water may also be thrown out and frozen in the same way, which breaking in their fall, will account for the great hail stones and "pieces of ice" spoken of by Howard, which fell at Salisbury, and for the "pieces of ice" of almost every form which fell during the passage of the Orkney spout in 1818.

EDUCATION. BY E. THOMSON.

EDUCATION should be what its name imports. It is derived from two words-e and duco, which signify to lead out; and it means developement. There is a very great error prevalent on this subject. Were we to consult the general opinion of parents, tutors, and pupils, we should suppose ssure must gradually decrease as you ascend. as well as by Mr. Espy's experiments. Saussure that education was the very reverse of developement. When a parent directs his teacher in the education of his children, he informs him that he would consequently expand: as it expanded it note the same fact while passing through clouds in nicated, say of grammar, arithmetic, Latin, &c. dense its vapor into sensible moisture, and thus storms, would seem also to confirm Espy's other cloth, could be measured by yard-sticks. The prepares to supply all orders in his line. He rediminished pressure to which they are subjected to character. For if a lofty cloud by the evolution of precious article. The parent upon receiving his and lighter, then will the air around it rush from the child's head to see if it be full. The poor The reduction of temperature which would thus all sides towards its base, and upwards into its cen- child, too, always thinks of education as of a be produced by the expansion of ascending air, Mr tre; and as the wind in its upward course comes process of filling up. He goes into the school-Espy finds by experiment to be about one degree under less pressure, it will become gradually cold-room as he would go into prison, expecting to vapor into visible cloud. For example: if, in a as it were, a self-sustaining power by which it the mind. The school-room should be an enchantdate for the prize entered into the Olympic games, of the wilderness. It is the arena for mental sport and mental struggle, with a view to mental development. An ancient teacher, Leucippus, down to the point of forming dew, when its vapor clouds, and the curious fact has given rise to much understood the principle, when he directed the will begin to condense, and the base of a forming speculation. The solution is now, however, per- pictures of joy and gladness to be hung around his school-room. I am aware that much useful dashes with such fearful velocity upward into the knowledge is communicated in the halls of science. There is no branch of science which does not from below, also carries up the water which has contribute its share of valuable facts. The ordinary branches of English education derive their chief value from their being available to the region of congelation, they are frozen together in practical purposes of life; but in reference to most branches of knowledge, the primary object is the developement, discipline, and strength of the intellectual powers .- Cincinnati Rep.

> The pressure of the atmosphere upon every square foot of the earth amounts to 2160 pounds. An ordinary sized man, supposing his surface to be 14 square feet, sustains the enormous pressure of 30,240 pounds. If there were an open the interior of the earth, into which air could descend, at the depth of about 34 miles, air would be as dense as water; at the depth of 48 miles, it would be as dense as quicksilver; and at the depth of about 50 miles as dense as gold.

"WE DO ALL FADE AS A LEAF."

Alas! how soon we die! How calmly pass away! Like stars upon the sky, That fade into the day.

We spend one moment here. In tasting earth's delights, Then pass, while yet the draught Our longing hearts invites.

Ah! wherefore must we die, Just as our lives begin? Why leave forever, joys, That aweet to us have been

Say, is it not because Fleeting, earth's joys are made; While those, beyond the sky, Will never, never fude?

Because our dearest joys,-Our sweetest pleasures, even, Do not belong to earth: They're only draps of Heaven.

G. T. T.

THE EXCELLENCY OF THE SCRIPTURES. Our theme is the Bible. If we are to prize one book above another, that book is the Bible. In point of true value, and real excellence, the highest possible regard should be paid to that inestimable volume, which has shed its radiant beams upon the moral darkness and gloom, that has spread itself over the universe. This book carries us back to the commencement of creation. when this world was spoken into existence-when chaos was called to order-when motion beganwhen time was born, and light burst forth. It makes us acquainted with the original nations, the earliest inhabitants of the earth. If we are admirers of antiquity, and desire to become acquainted with the characters of those that lived before the flood, there is no other book that can reveal the mysteries of the past. It gives us the history of the rise and fall of nations, the destruction of cities, and the overthrow of empires. The Bible! a book proceeding, not from human wisdom or foresight, but from the inspiration of the Almighty. We are not to receive it as some romantic, or chimerical story, calculated to fill the mind with visionary notions, but as the "storehouse of truth the fountain of wisdom and piety, the repository of all that is great in idea, awful in importance, desirable in experience, and venerable in excellence." It reveals to us the character and perfections of God, and the relation we sustain to him. Its truths find their way into the deep recesses of the human heart, and expose its depravity, in the light of eternity. It invites the wanderer to return to God, and not to seek his happiness, in the fading and transitory joys of The American community is emissently utilitar-earth. Upon the truth of the Scriptures, hang the ian. The question ever is prone to come up reseternal destiny of man. This is his only unerring pecting any thing or project—what is it good for? from the threshing floors of intellect. No reason

gaide. Were he destitute of this invaluable What can it effect towards promoting the happitreasure even the happiness of this life would be ness of human life? To this test every more transient, and uncertain. Man would be like the theory that gains admission on Amercan ground, mariner tossed upon the rough ocean without rud- must be brought; and the answer, which either der or compass; or as the soldier in the heat of scrutiny or experience records, must be the mean battle, without a shield. By the aid of this bless- ure of its acceptance or rejection. Few are the ed book, he is enabled to shape his course for the theories that obtain in this country for the sake haven of elernal repose. He sees the hopes of of theory. The reasons are obvious. The age immortality shining out, brightly and beautifully of monkish devotion to letters, for the sake of upon every page. In short, we may say, all that letters, has past away. The mouldy books of the man can want, or wish, or hope to render his state cloisters, and their no less mouldy book-worms, here imppy, beyond description, and to secure to the withered crones of the ancient Universities. him a happy passport to the skies, is found in the strenuous and acute men, who were able to write a Bible. Would be see the flowers of rhetorick,—bundred volumes on the Greek article, or strike the scriptures surpass the most renowned authors with unerring aim the precise shade of difference of antiquity in beauty of expression, and simplicibetween two atoms of matter when reduced to the ty of style. Would be see history portrayed in infinitesimal fraction of nothing, have all gone all its loveliness and grandeur-it is found in the down to the tomb of the Capulets. Sic transit. Bible. 'Homer himself never reached the sublimity of Moses' songs, nor can'there be found a poem in ancient, or modern literature, that can be they flourished and are forgot. compared with 'the song of David, when he exclaimed; "He bowed the heavens also and came down; and darkness was under his feet. And he rode upon a cherub, and did fly; and howas seen upon the wings of the wind." What heathen writings can be compared, in beauty, and excellence, with the writings of the prophets. Hear the exclamation of Jeremiah, while mourning over the wayward Israelites. "Oh that my head were waters, and mine eyes a fountain of tears." If we wish for plaintiveness of style, what can be more eloquently impressive, than the representations of David, weeping over his beloved, yet fallen Absalom, or Joseph revealing himself to his brethren. Compare the writings of Homer with that of Isriah, describing the majesty of God, "Seeing that it is He that stretcheth out the heavens as a curtain, and spreadeth them as a tent to dwell in." Or with Nahum, while he foresces, in spirit, proud Ninevah fall before an invincible army. Rend likewise Daniel, declaring the vengeance of the Almighty upon Belshazzar, which caused that voluptuous king to fear and tremble. Finally the scriptures for exceed all heathen writings. The one relates to earth, the other to heaven; the one is chained down to time, the other takes hold on eternity; the one is from man, the other is from God. CAROLUS.

ORATION.

Delivered before the Literary Societies of the Wesleyan University, August 3rd, 1841.

BY REV. PROP. JOHN NEWLAND MAFFIT.

GENTLEMEN OF THE SOCIETIES,-

The subject that I have selected for the preoccasion is THE INTELECTUAL AND MORAL POWER OF EDUCATION.

is inscribed on the tattered escutcheon that hange listlessly on the cobwebbed halls, where once

In this utilitarian age, study, and letters, and science, are resorted to for the one great purpose of giving moral power to man. The boy learns because he wishes to become an influential man, and is desirous of sustaining his desired station in society. He uses his book as a stepping stone to consideration, or as a polishing stone to give edge and brilliancy to that intellect with which he is to engage in the keen encounter of life.

The internal world of Symmes which he se plausibly demonstrated, with its hollow globes and refracted samehine, that seemed to be as well pleased to give light to the dwellers inside the shell, as to those who had taken an outside berth on our northern planet, never awakened a single dream of its reality in the mind of the matter-offact part of our community. The colleges were respectful listeners to all Mr. Symmes could say about his untraveled world, whose map stretches along the inner crust of the foot-ball which was set in motion when Adam was the solitary passenger, at least, on the outside. But the colleges were not convinced. No navigator had ploughed a furrow on the rim that bent over from the supernal to the infernal side of the shell. All the phenomena of navigation could be reconciled to the outside figure of a spheroidal globe, whose surface might be dust and vapor and mind-stirred particles of water, but whose centre must be the condensed focus of matter, where gravitation presses water into stone, and the ponderous rock into liquid flame. In the centre of the earth, sober Geology could only find the great central furnace which heats the globe, whose seething fires find here and there their volcanic vents, and breathe their hissings into the heavens. Thus the theory of John Cleves Symmes passed away like a dream, with the many inventions with which the world in modern times has been so constantly perplexed. Mere theories are the chaff which the wind drives

depends on immutable principles. The far-reach- Paul the very chief of Apostles. It was this, that ing arrow was never shot fro m a nerveless bow! The sun, that lifts so broad a smile over earth, in tyranical Athens; and Alfred of England, the lar of thick cloud. ocean and sky, must of necessity be an orb of on which education was based thousands of years was education that made Franklin stronger than influences now. The operations of the moral and intellectual world have certainly as much method indeed, has not been as well studied as the other. Had it been so, we should long since have known how to get up a moral as well as a physical steam mosphere of error, as a mimic earthquake to which he shoots his bolts of the electric fluid, and makes it melt into rain.

But the Grecian maxim, know thyself, has been little headed by man. Analysis will show us man. Under its wonder-working influence he ling out the analogies between the ball on a man's

able, well balanced mind mistakes them for the that education was always moral power. The sways the scepter of a God, and can exclaim exlearner of the teachings of God, was ever a more ultingly in the language of the poet, More modern scholastics, however, seem desti- powerful intellect than the devotee of folly. The ned to eclipse by the wildness of their vagaries, education of Enoch, taught him to escape death all the venerable hypotheses of antiquity, and our which rested on all else who lived before the flood: new world bids fair to excel in folly and extrava- while the education of Noah floated him over the gance all the system-makers of olden time. The broadest and stormiest ocean that ever belted the ements of trancendentalism are elaborated green earth, and overwhelmed its millions in an with a patience and a skill which puts competition untimely grave. The education of Joseph, led at defiance, while their bold conceits are dignified him to the throne of Egypt from the cell of a priswith the name of theories, the votaries of which on. 'The education of Moses made him the conare challenging the faith of the world by the pe-queror of that Egypt, whose stern law had doomed dantte mask of learning, with which this intellec-him to death in infancy, and his suffering parents tual strife has been decorated. Cui Bono? - to bondage. Instructed in all the windom of What is the good?—has been the outcry of true Egypt, to which he added the better education of philosophy in every age of the world. As the in- fearingGod, his moral power was as capable of oversect called the Cicada or Katydid, which fills your reaching and absorbing the collected learning of the southern groves with contradictory music, one Savins of the Nile, as his serpant rod was of voice asserting that Katy did and the other that swallowing the rods of the magicians, who vainly Katy didn't, until ten thousand disputants take up essayed to test and measure his immortal science the vexed question, and wreak its merits upon by their puny juggleries and divination. The edevery ear that is not split by its clangor-so in the ugation of David enabled him to charm the demor world of mind, have the Eurekas,-I have found that rioted in the bosom of the first king of Israel. something new, -of ten thousand theories, been It was education that made him Saul's successor enswered by the twice ten thousand Cui Bonos, - although thereby the stupid doctrines of legitama. what is it good for, -of the cold-blooded utilitari- cy received their earliest blow, but which fell on ans. It is well it is so. Let every thing be judg- heads too thick to feel, and to obtuse to learn. ed by its use. Were it otherwise, the whole world The education of Solomon made his words the would be affoat like some unstable island, broken peerless lessons of wisdom, and enabled him to write from its moorings in the midst of a boiling ocean, the epitaph of Earth on the scroll of Eternity-Washington of that fast anchored isle. It was this ago, and what were then its influences upon hu- the thunder, and Fulton the king of the waves .man charcter, must be those same principles and It was education that made the plain, the affectionate, the generous La Fayette the standardbearer of popular rights on a continent overshad- Physical, Intellectual, and Moral. and rule as those of the natural world. The one owed with the frowns of monarchy; that made Of the first I shall not speak at large. It will have drifted on the lee-shore of anarchy and misengine; we could as well have had a domestic mor- rule, and that has made his memory the polar star world's glory.

I am monarch of all I survey, My right there are none to dispute; From the centre all round to the sea I am lord of the fowl and the brute.

Universal nature lies quiescent in his plastis hands, and its varied material is shaped into forms of beauty and power at his bidding. Educatio has brought far-distant and mountain separated provinces into fraternal neighborhood; it has made the blast of the steam-lions roar louder than the mountain wind on all our majestic rivers and heaven . reflecting fakes; it has borne its echoes from the beautiful Ohio to the gulf of Mexico, and from the rocky hills of the far-wandering Missouri to the distant Canadas. Education has brought Europe within a few weeks distance of young America; it has chained the Alleghanies to the White Hills of New Hampshire; it has bound the Mississippi with a silver thread to the Hudson; lashed the St. Lawrence to the hoary mane of the Atlantic, and made Lake Superior the transcendent Adriatic of the new world.

Education is as trely the soul of Genius, as the power of creation is its body, or rather, the sensible taken which Education gives of its presence. The one is the lighted lamp which illuminates the cavern where Genius delves in the mine of intellectual wealth, while Genius is but the laborer, who, were it not for this spirit lamp, would grope The energies of mind would be expanded in over- Vanity of vanities, all is vanity. It enabled in darkness without end or aim. Education is the taking shadows only to grasp their air, while all him to rear a temple, whose beauty astonished the wind which stars the fathomless ocean of thought. the teachings of antiquity would be forgotten in the world; to amass wealth and power, at the sight of It is the principle that ignites the volcanic matter, conseless whirl of uncertain experiment. It may which other rulers fainted, and had no strength rebe assumed that every thing powerful or useful, maining in them. It was education that made now to mount through the riven bowels of the now to mount through the riven bowels of the mountains in strangely terrific, yet beautiful jets made Socrates too powerful a being for sufferance of fire, over which is thrown the mantle of a pil-

What Deity give such a sceptre to man, as he light that beggars the lesser orbs that float like that made Voltaire the demon of the French Revolu- went weeping through the angel-guarded gates of bees in his mighty eye; so any thing, that pro-tion, stirring the elements of sin with the wand of an Eden, into a world of tears and death? To this duces so strong an effect on human character as Omnipotent Genius, and showing the horror struck question, the Delphic oracle is dumb, and Mytholeducation does, must of necessity thave fixed and age how much like MELE, earth could be made ogy has no answer; but the great age of improve-immutable principles. What were the principles under the spells of such a fiendish enchanter. It ment speaks from the characters of mind and ment speaks from the observatory of mind and answers me:-Education is both moral and physical power.

With modern educationists, I divide instruction and human culture into its three departments,

him in the recent risings against tyranny in France not be expected that I should go into the comparthe anchor of Empire, which, without him, might ative merits of Graham's bread and saw-dust, as articles of diet, or whether the man-machine is engine; we could as well have had a domestic mor-rale, and that has made his memory the polar star at earthquake or thunder-storm to clear the at-of Liberty throughout the world. It was this that down to a thinness that the groon will shine made the peerless Washington more than king, through, or when as fat as two single gentlemes shake an acre of ground, or a pu ny cloud of vapor greater than monarchs, the disinterested patriarch rolled into one. Nor, can I, like the giants of earling up in a chemist's laboratory, through of virtue and liberty, an benor to human nature, Phrenology, lay open the human head before you and the brightest star in the hemisphere of the like a map, showing the latitude and the longitude of the mental, moral and physical man, with all Education has changed the whole constitution of the precision of geographical measurement, point-

shoulders, and the opaque globe he inhabits. Nor am I sufficiently acquainted with judicial Phrenology, by which a man can be arrested, tried, and executed, not for his deeds, but for his develope- aus of Vermont, for 1840, as given in the Vermont ments; making him a murderer as soon as they Register for 1842. It is evidently erroneous, how see murder sticking out of his skull, or a thief as ever, as to the number of Students; in some insoon as they find a villainous bump in some part stances the number for a term being given, and in of a meanly furnished head. All this I leave others for the whole year: to abler hands than mine.

But may I not speak of the rise and developement of the intellect? That glorious faculty which has inscribed immortality on the destinier of man!

"Of all that live and move and breathe, Man only rises o'er his birth; He looks around, above, beneath At once the heir of heaven and earth. What guides him in his high pursuit, Lightens, illumines, cheers his way, iscerns the immortal from the brute, God's image from the mouth of clay? Tis knowledge—Knowledge to the soul And while eternal ages roll,

The joys of knowledge shall increase."

Commencing at a point scarcely perceptible on the map of human existence, the intellect grown to a god-like size; yet it is never monstrous. The larger it grows the more perfect are its proportions. Passion may be of a monstrous growth, but intellect never.

The philosophers of mind, divided though they may be on the topics of an innate moral sense, or of impate ideas in the mind of an infant, are yet united on the doctrine of the adaptation of such a mind for the gradual reception of new ideas, which may be derived from sensible objects in the world around, from parental example, and moral lessons. Inconceivably dim as may be these first glimmerings of intellect, they may be destined to astonish and bless mankind in the progress of their developement; they may kindle slowly, yet burn brightly and long.

(To be continued.)

SCHOOL MASTERS .- On the Continent, till late ly, the office of school master in country villages was considered one of the lowest employments in society. Even in Prussia, about the middle of the last century all that was required of their school masters who were chiefly mechanics, was to be able to read, say the catechism, sing tolerably a few well-known psalm tunes and to write and cipher a little. Numbers of shepherds employed in keeping sheep, during the winter, assumed the office of teachers of youth. The nobility used generally to bestow the place of school master, if it was at their disposal, on their valets or grooms as a reward for past services. In ma ny instances the offices of village barber, fiddler, and school-master were conjoined in the same person-Dr. Dick.

Air ceases to reflect light at the height of 45 miles above the serface of the earth.

ACADEMIES AND HIGH SCHOOLS IN VERMONT.

We copy the following statistics from the cen-

Towns.	Students.	Torons.	Students.
Bennington,	(2) 150	Lyndon,	131
Bradford,	150	Ludlow,	130
Brandon,	80	Manchester,	105
Brattleboro' (2) 245		Middlebury,(2) 70	
Brookfield,	50	Montpelier,	201
Browningto	n, 46	Newbury,	389
Burlington,	104	Norwich, (2	70
Castleton,	190	Northfield,	80
Chester,	267	Panton,	9
Concord,	40	Peacham,	135
Corinth,	1 1000000000000000000000000000000000000	Poultney,	112
Craftsbury,	65	Randolph,	181
Derby,	THE STATE OF	Royalton,	36
Enosburgh,	50	Shaftsbury,	20
Ferrisburgh,	20	Shoreham,	35
Georgia,	18	St. Albans,	80
Guildhall,	61	St. Johnsbur	y, 25
Halifax,	100	Thetford, (2) 176
Hartland,	30	Townshend,	156
Hinesburgh	, 102	Tunbridge,	40
Jericho,	50	Waterford,	41
Johnson,	100	Woodstock,	25
T	otal.	o etc. Appelicati	1 1000

Academies, Students, 4,131

NEWBURY SEMINARY.

The following facts respecting this Institution re taken from the last annual Catalogue.

Officers of Institution and Government.

Rev. Osmon C. BAKER, A. M., Principal, and Teacher of Biblical Literature, and Natural and Moral Science.

Greek and Mathematics.

J. HARRISON GOODALE, A. B., Teacher of Latin and English Literature.

Miss RACHEL SMITH, Preceptress, and Teach er of French, and the Ornamental Branches.

Miss MARY M. LANG, Teacher of Spanish and Italian Languages.

Mrs. MARTHA'A. HINMAN, Teacher on the Pinno Forte.

Number of Students,—Gentlemen	. 216
Ladies,	195
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Total, in	411
Winter Term, 83 Summer	Ferm, 104
Spring Term, 219 Fall Term	n, 123
of the explorational set of the	a terbinal
M. S. L. S.	-

Terms and Vacations.-The acades is divided into four Terms, three of twelve, and

one of eight weeks. The terms will commence as follows:

Aug, 25th, Fall Term, 12 weeks. Winter Term, Nov. 25th, 12 weeks Spring Term, Feb. 24th, 12 weeks. 8 weeks Summer Term, May 26th.

The Summer Term will be succeeded by a vacation of five weeks, and the other three by one

Expenses Tuitio	n. Common Engl	ish branch-
es, per week,	. 41	0,27 3-11
All other studies,	and the Land Conference	0,36 4-11
Ornamental branch	es, per term,	1,00
Music, with the us	e of the Piano	L Street Land
Forte, per term,	Maria de la compansa del compansa de la compansa del compansa de la compansa de l	8,00
Incidental Expense	Contract of the second	0,25
Board, in the esta	blishment, inclu-	di balfas mes
ding room-rent and w	rashing per week,	1,50
Taition fees are n	ot received for a	term less

THE ATMOSPHERE.

than aix weeks.

The weight of the atmosphere is 11,624914,-803603,492864 lbs. which is equal to an ocean of quicksilver surrounding the whole globe, 30 inches in depth-to an ocean of water, 33 feet in depth, and to a globe of lead sixty miles in diam-

PESTALOZZI'S SCHOOL.-It is a remarkable circumstance, that neither punishment nor reward is necessary to excite his pupils in their labors .-This is, perhaps, the first instance, in which a school of one hundred and fifty children has succeeded without having recourse to the principles of emulation and of fear. How many bad feelings are spared, when every emotion of jealousy and disappointed ambition is removed from the heart; and when the child sees not in his companions, rivals, nor in his teacher, a judge! There, the object is, not to excel, not to succeed in a competition for superiority, but to make a progress, to advance towards an end at which they all aim Rev. CLARE T. HINMAN, A. B., Teacher of with equal integrity and simplicity of intention .-

> THE MIRROR.- An apology is due to our subscribers for the tete appearance of the present number. We claim indulgence, as circumstances have occurred which made it impossible for us to furnish the printers with copy at an earlier date.

NOTICE.

From the Postmaster General. Remittances by mail. "A Postmaster may enclose money in a letter to the publisher of a newspaper, to pay the subscription of a third person, and frank the letter, if written by himself."

It is particularly requested that those who have not yet paid for the Mirror for the past year, should immediately forward the money. A word, we trust, to the wise will be sufficient.